

## SEQUENCE LISTING

<110> Japan Science and Technology Agency

<120> Mouse Deficient In Glutamate Transporter GLAST Function

<130> G05-0071

<150> JP2003-114793

<151> 2003-04-18

<160> 2

<210> 1

<211> 1629

<212> DNA

<213> Mouse

<400> 1

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aatctggtag aagcctgctt taaacagttt aaaaccagct acgagaaaag aagctttaaa	600

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<212> PRT

<213> Mouse

<400> 2

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 35 40 45  
 Ala Phe Val Leu Leu Thr Val Thr Ala Val Ile Val Gly Thr Ile Leu  
 50 55 60  
 Gly Phe Ala Leu Arg Pro Tyr Lys Met Ser Tyr Arg Glu Val Lys Tyr  
 65 70 75 80  
 Phe Ser Phe Pro Gly Glu Leu Leu Met Arg Met Leu Gln Met Leu Val  
 85 90 95  
 Leu Pro Leu Ile Ile Ser Ser Leu Val Thr Gly Met Ala Ala Leu Asp  
 100 105 110  
 Ser Lys Ala Ser Gly Lys Met Gly Met Arg Ala Val Val Tyr Tyr Met  
 115 120 125  
 Thr Thr Thr Ile Ile Ala Val Val Ile Gly Ile Ile Ile Val Ile Ile  
 130 135 140  
 Ile His Pro Gly Lys Gly Thr Lys Glu Asn Met Tyr Arg Glu Gly Lys  
 145 150 155 160  
 Ile Val Gln Val Thr Ala Ala Asp Ala Phe Leu Asp Leu Ile Arg Asn  
 165 170 175  
 Met Phe Pro Pro Asn Leu Val Glu Ala Cys Phe Lys Gln Phe Lys Thr  
 180 185 190  
 Ser Tyr Glu Lys Arg Ser Phe Lys Val Pro Ile Gln Ser Asn Glu Thr  
 195 200 205  
 Leu Leu Gly Ala Val Ile Asn Asn Val Ser Glu Ala Met Glu Thr Leu  
 210 215 220  
 Thr Arg Ile Arg Glu Glu Met Val Pro Val Pro Gly Ser Val Asn Gly  
 225 230 235 240  
 Val Asn Ala Leu Gly Leu Val Val Phe Ser Met Cys Phe Gly Phe Val  
 245 250 255  
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260	265	270
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275	280	285
Ala Pro Leu Gly Ile Leu Phe Leu Ile Ala Gly Lys Ile Val Glu Met		
290	295	300
Glu Asp Met Gly Val Ile Gly Gly Gln Leu Ala Met Tyr Thr Val Thr		
305	310	315
320		
Val Ile Val Gly Leu Leu Ile His Ala Val Ile Val Leu Pro Leu Leu		
325	330	335
Tyr Phe Leu Val Thr Arg Lys Asn Pro Trp Val Phe Ile Gly Gly Leu		
340	345	350
Leu Gln Ala Leu Ile Thr Ala Leu Gly Thr Ser Ser Ser Ala Thr		
355	360	365
Leu Pro Ile Thr Phe Lys Cys Leu Glu Glu Asn Asn Gly Val Asp Lys		
370	375	380
Arg Ile Thr Arg Phe Val Leu Pro Val Gly Ala Thr Ile Asn Met Asp		
385	390	395
400		
Gly Thr Ala Leu Tyr Glu Ala Leu Ala Ala Ile Phe Ile Ala Gln Val		
405	410	415
Asn Asn Phe Asp Leu Asn Phe Gly Gln Ile Ile Thr Ile Ser Ile Thr		
420	425	430
Ala Thr Ala Ala Ser Ile Gly Ala Ala Gly Ile Pro Gln Ala Gly Leu		
435	440	445
Val Thr Met Val Ile Val Leu Thr Ser Val Gly Leu Pro Thr Asp Asp		
450	455	460
Ile Thr Leu Ile Ile Ala Val Asp Trp Phe Leu Asp Arg Leu Arg Thr		
465	470	475
480		
Thr Thr Asn Val Leu Gly Asp Ser Leu Gly Ala Gly Ile Val Glu His		
485	490	495

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Leu Ser Arg His Glu Leu Lys Asn Arg Asp Val Glu Met Gly Asn Ser

500

505

510

Val Ile Glu Glu Asn Glu Met Lys Lys Pro Tyr Gln Leu Ile Ala Gln

515

520

525

Asp Asn Glu Pro Glu Lys Pro Val Ala Asp Ser Glu Thr Lys Met

530

535

540

543